



SV2-M075AS
Straight axis Absolute 750W



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model			SV2-M075AS
General specifications	Applicable servo amplifier		SV2-075L2
	Rated output		750 W
	Rated torque		2.39 N·m *1
	Instant maximum torque		8.36 N·m
	Rated current		4.4 Arms
	Instant maximum current		16.9 Arms
	Rated rotation speed		3000min ⁻¹
	High rotation speed		6000 min ⁻¹
	Torque constant		0.584 N·m/Arms
	Rotor moment of inertia		1.59 ×10 ⁻⁴ kg·m ²
	Rated power rating		35.9 kW/s
	Rated angle acceleration		15000 rad/s ²
	Excitation method		Permanent magnet
	Position/speed detection encoder	Resolution	22 bits
		Type	Absolute (ABS) type
	Operating environment	Enclosure rating	Completely closed, self-cooling, IP67 standard (excluding connector and axis through-hole area)
		Operating ambient temperature	0 to +60°C 32 to 140°F (reduced ratings at +40°C 104°F or more)
		Storage ambient temperature	-20 to +60°C -4 to +140°F
		Operating/storage ambient temperature	20 to 80% RH (no condensation)
		Operating atmosphere	Indoors (no corrosive gas, flammable gas, oil mist, or dust)
		Altitude	2000 m 6561.7' or less (reduced ratings at 1000 m 3280.8' or more)
		Vibration rank	V15
		Vibration resistance	49 m/s ² 160.8'/s ² with servo motor flange surface as reference (3 directions: up/down, left/right, forward/backward)
		Impact resistance	490 m/s ² 1607.6'/s ² with servo motor flange surface as reference, 2 times
	Isolation rank		UL: phase A, CE: phase B
	Min. insulation resistance		500 VDC, 10 MΩ or more with insulation resistance tester
	Isolation voltage tolerance		1500 VAC for 1 minute
Approved standards	UL/CSA standards		UL1004-1, UL1004-6, CSA C22.2 No.100
	CE marking	Low-voltage directive	EN60034-1, EN60034-5
		EMI	EN55011 Class A, EN61800-3, EN61000-6-4
		EMS	EN61800-3, EN61000-6-2

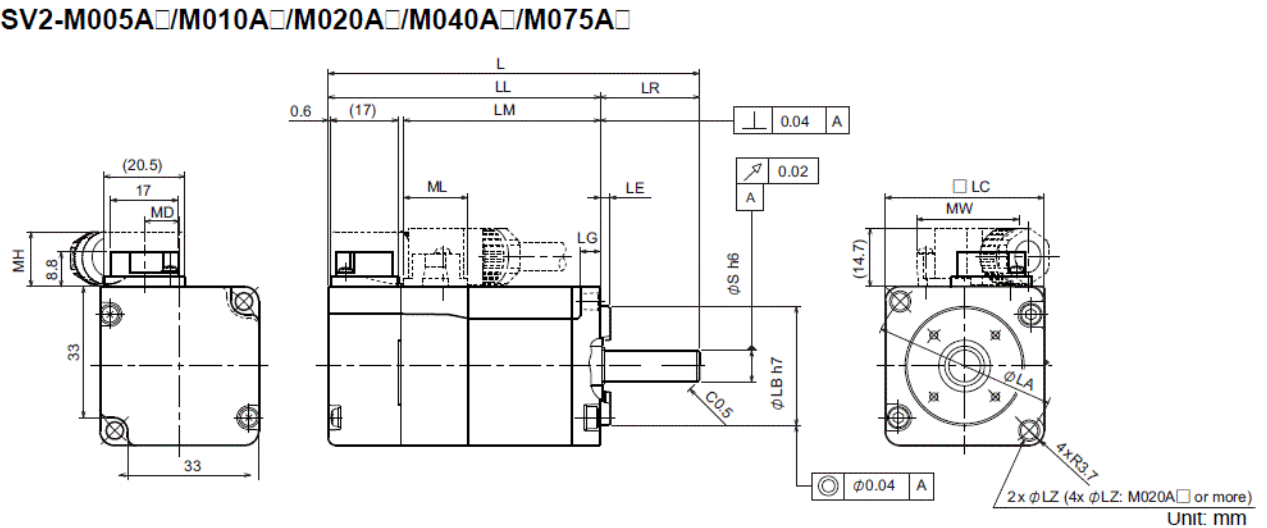
	North America EMI standard	FCC Part15 B, ICES-003. Class A
	Allowable load inertia moment	12 ×
	Approx. weight	2.2 kg

*1 50 W to 750 W rated torque is continuously allowable with ambient temperatures of 40°C 104°F and 200 × 200 × 6 mm 7.87" × 7.87" × 0.24" (50 W / 100 W) or 250 × 250 × 6 mm 9.84" × 9.84" × 0.24" (200 W to 750 W) mountable aluminum heat sink.
1 kW to 5 kW rated torque is continuously allowable with ambient temperatures of 40°C 104°F and 400 × 400 × 20 mm 15.75" × 15.75" × 0.79" (1 kW to 2 kW) or 550 × 550 × 30 mm 21.65" × 21.65" × 1.18" (3 kW to 5 kW) mountable aluminum heat sink.

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

sv2-m005as_dimension_01.gif



Model	SV2-M005A□	SV2-M010A□	SV2-M020A□	SV2-M040A□	SV2-M075A□
L	81.5	93.5	99.5	115.5	137
LL	56.5	68.5	69.5	85.5	97
LM	37.9	49.9	51.2	67.2	78.5
LR	25	25	30	30	40
LA	46	46	70	70	90
LB	30 ⁰ _{-0.021}	30 ⁰ _{-0.021}	50 ⁰ _{-0.025}	50 ⁰ _{-0.025}	70 ⁰ _{-0.030}
LC	40	40	60	60	80
LE	2.5	2.5	3	3	3
LG	5	5	6	6	8
LZ	4.3	4.3	5.5	5.5	7
S	8 ⁰ _{-0.009}	8 ⁰ _{-0.009}	14 ⁰ _{-0.011}	14 ⁰ _{-0.011}	19 ⁰ _{-0.013}
MD	8.8	8.8	8.5	8.5	13.6
MW	25.8	25.8	28.7	28.7	38
MH	14	14	14.7	14.7	14.7
ML	16.1	16.1	17.1	17.1	19.3